

SECTION 2. FORMS PTO/SB/08A and 08B (formerly Form PTO-1449)**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicants: Fitz et al. Attorney Docket: 2960/118

Serial No: 10/752,438 Art Group Unit: 3738

Date Filed: January 5, 2004 Examiner Name: Stewart, Jason-Dennis
Neilken

Invention: Patient Selectable Knee Arthroplasty Devices

**LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

U.S. PATENT DOCUMENTS					
Examiner Initials	Reference Number	Document Number	Issue Date	Inventor	Class/Subclass
	JK	US 3,314,420	Apr. 18, 1967	Smith et al.	128/92
	JL	US 3,605,123	Sep. 20, 1971	Hahn	3/1
	JM	US 3,808,606	May 7, 1974	Tronzo	3/1
	JN	US 3,843,975	Oct. 29, 1974	Tronzo	3/1
	JO	US 3,938,198	Feb. 17, 1976	Kahn et al.	3/1.912
	JP	US 3,987,499	Oct. 26, 1976	Scharbach et al.	3/1.91
	JQ	US 4,098,626	Jul. 4, 1978	Graham et al.	149/19.4
	JR	US 4,213,816	Jul. 22, 1980	Morris	156/245
	JS	US 4,368,040	Jan. 11, 1983	Weissman	433/36
	JT	US 4,594,380	Jun. 10, 1986	Chapin et al.	524/144
	JU	US 5,108,452	Apr. 28, 1992	Fallin	623/23
	JV	US 5,162,430	Nov. 10, 1992	Rhee et al.	525/54.1
	JW	US 5,288,797	Feb. 22, 1994	Khalil et al.	524/872
	JX	US 5,320,102	Jun. 14, 1994	Paul et al.	128/653.2
	JY	US 5,423,828	Jun. 13, 1995	Benson	606/102
	JZ	US 5,478,739	Dec. 26, 1995	Slivka et al.	435/240.23
	KA	US 5,507,820	Apr. 16, 1996	Pappas	623/20
	KB	US 5,523,843	Jun. 4, 1996	Yamane et al.	356/363
	KC	US 5,683,468	Nov. 4, 1997	Pappas	623/20
	KD	US 5,684,562	Nov. 4, 1997	Fujieda	351/212
	KE	US 5,690,635	Nov. 25, 1997	Matsen, III et al.	606/88
	KF	US 5,832,422	Nov. 3, 1998	Wiedenhoefer	702/154
	KG	US 5,847,804	Dec. 8, 1998	Sarver et al.	351/206
	KH	US 6,057,927	May 2, 2000	Lévesque et al.	356/432T
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	KJ	US 6,322,588	Nov. 27, 2001	Ogle et al.	623/1.46
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	KM	US 6,382,028	May 7, 2002	Wooh et al.	73/602

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	KN	US 2002/0111694	Aug. 15, 2002	Ellingsen et al.	623/23.57
	KO	US 2007/0100462	May 3, 2007	Lang et al.	623/20.29

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	KP	CN	2305966	Feb. 3, 1999	Wendeng Osteopathy Hospital SH	A61F 2/28
	KQ	CN	2305966 (English Abstract)	Feb. 3, 1999	Wendeng Osteopathy Hospital SH	A61F 2/28
	KR	JP	1-249049 (English Abstract)	Oct. 4, 1989	Kyocera Corp.	A61F 2/38
	KS	JP	8-173465 (English Abstract)	Jul. 9, 1996	Kyocera Corp.	A61F 2/38
	KT	JP	9-206322 (English Abstract)	Aug. 12, 1997	Naohide	A61F 2/38
	KU	JP	11-19104	Jan. 26, 1999	Itokazu Kazumasa Asahi Optical Co Ltd	A61F 2/28
	KV	JP	11-19104 (English Abstract)	Jan. 26, 1999	Itokazu Kazumasa Asahi Optical Co Ltd	A61F 2/28
	KW	JP	11-276510	Oct. 12, 1999	Kyocera Corp	A61F 2/28
	KX	JP	11-276510 (English Abstract)	Oct. 12, 1999	Kyocera Corp	A61F 2/28

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	KZ	JP	61-247448 (English Abstract)	Nov. 4, 1986	Nippon Oil Corporation	A61F 2/30
	LA	DE	3516743 (English Abstract)	Nov. 13, 1986	Orthoplast Endoprothetic GmbH	A61F 2/36
	LB	DE	2306552	Aug. 14, 1974	Friedrichsfeld GmbH	A61F 1/00
	LC	DE	19803673	Aug. 5, 1999	Meenen	A61L 27/54
	LD	DE	19926083	Dec. 14, 2000	Universitätsklinikum Freiburg	A61L 27/54
	LE	DE	19926083 (English Abstract)	Dec. 14, 2000	Universitätsklinikum Freiburg	A61L 27/54
	LF	FR	2589720 (English Abstract)	May 15, 1987	Aubaniac	A61F 2/38
	LG	GB	1451283	Sep. 29, 1976	Friedrichsfeld GmbH	A61F 1/24
	LH	EP	0600806 (English Abstract)	Jun. 8, 1994	Medinov SA	A61F 2/38
	LI	EP	1070487	Sep., 2005	Ethicon, Inc.	A61F 2/08
	LJ	EP	1327423	Jul. 16, 2003	Centerpulse Orthopedics Ltd.	A61F 2/38
	LK	WO	97/027885	Aug. 7, 1997	Lec	A61L 27/00
	LL	WO	97/046665	Dec. 11, 1997	Sulzer Orthopedics Ltd	C12N 5/06
	LM	WO	98/008469	Mar. 5, 1998	VTS Holdings, Ltd.	A61F 2/30
	LN	WO	98/052498	Nov. 26, 1998	Jansson et al.	A61F 2/28
	LO	WO	99/008598	Feb. 25, 1999	Mendlein et al.	A61B 8/00
	LP	WO	00/015153	Mar. 23, 2000	Mansmann	A61F 2/38
	LQ	WO	00/068749	Nov. 16, 2000	3DI GmbH	G05B 19/4099

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	LS	WO	01/077988	Oct. 18, 2001	Therics, Inc.	G06F 19/00
	LT	WO	04/032806	Apr. 22, 2004	Imaging Therapeutics, Inc.	A61F 2/30
	LU	WO	04/049981	Jun. 17, 2004	Imaging Therapeutics, Inc.	A61F 2/46
	LV	WO	05/051240	Jun. 9, 2005	ConforMIS, Inc.	A61F 2/08
	LW	WO	06/058057	Jun. 1, 2006	ConforMIS, Inc.	A61F 2/38
	LX	WO	07/041375	Apr. 12, 2007	ConforMIS, Inc.	A61F 2/38
	LY	WO	07/109641	Sep. 27, 2007	ConforMIS, Inc.	A61F 2/30

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Examiner Initials	Reference Number	Author	Title of Article, Title of Journal, Volume Number, Page Numbers, Date
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	MA	Adam et al.	"MR Imaging of the Knee: Three-Dimensional Volume Imaging Combined with Fast Processing," J. Compt. Asst. Tomogr., 13(6): 984-988 (1989)
	MB	Adams et al.	"Quantitative Imaging of Osteoarthritis," Semin Arthritis Rheum, 20(6) Suppl. 2: 26-39 (June 1991)
	MC	Ahmad et al.	"Biomechanical and Topographic Considerations for Autologous Osteochondral Grafting in the Knee," Am J Sports Med, 29(2): 201-206 (Mar.-Apr. 2001)
	MD	Alexander	"Estimating the motion of bones from markers on the skin," University of Illinois at Chicago (Doctoral Dissertation) (1998)

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	ME	Alexander et al.	"Correcting for deformation in skin-based marker systems," Proceedings of the 3rd Annual Gait and Clinical Movement Analysis Meeting, San Diego, CA (1998)
	MF	Alexander et al.	"Internal to external correspondence in the analysis of lower limb bone motion," Proceedings of the 1999 ASME Summer Bioengineering Conference, Big Sky, Montana (1999)
	MG	Alexander et al.	"State estimation theory in human movement analysis," Proceedings of the ASME International Mechanical Engineering Congress (1998)
	MH	Alexander et al.	"Optimization techniques for skin deformation correction," International Symposium on 3-D Human Movement Conference, Chattanooga, TN, (1998)
	MI	Alexander et al.	"Dynamic Functional Imaging Of The Musculoskeletal System," ASME Winter International Congress and Exposition, Nashville, TN (1999)
	MJ	Allen et al.	"Late degenerative changes after meniscectomy 5 factors affecting the knee after operations," J Bone Joint Surg 66B: 666-671 (1984)
	MK	Alley et al.	"Ultrafast contrast-enhanced three dimensional MR Aangiography: State of the art," Radiographics 18: 273-285 (1998)
	ML	Andriacchi	"Dynamics of knee Malalignment," Orthop Clin North Am 25: 395-403 (1994)
	MM	Andriacchi, et al.	"A point cluster method for in vivo motion analysis: Applied to a study of knee kinematics," J. Biomech Eng 120(12): 743-749 (1998)
	MN	Andriacchi, et al.	"Methods for evaluating the progression of Osterarthritis," Journal of Rehabilitation Research and Development 37(2): 163-170 (2000)

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	MP	Andriacchi et al.	"In vivo measurement of six-degrees-of-freedom knee movement during functional testing," Transactions of the Orthopedic Research Society 698 (1995)
	MQ	Aro et al.	"Clinical Use of Bone Allografts," Ann Med 25:403-412 (1993)
	MR	Bashir	"Validation of Gadolinium-Enhanced MRI of FAF Measurement in Human Cartilage," Intl. Soc. Mag. Resonance Med. (1998)
	MS	Beaulieu et al.	"Glenohumeral relationships during physiological shoulder motion and stress testing: Initial experience with open MRI and active Scan-25 plane registration," Radiology (1999)
	MT	Beaulieu et al.	"Dynamic imaging of glenohumeral instability with open MRI," Int. Society for Magnetic Resonance in Medicine Sydney, Australia (1998)
	MU	Beckmann et al.	"Noninvasive 3D MR Microscopy as Tool in Pharmacological Research: Application to a Model of Rheumatoid Arthritis," Magn Reson Imaging 13(7): 1013-1017 (1995)
	MV	Bobic	"Arthroscopic osteochondral autograft transplantation in anterior cruciate ligament reconstruction: a preliminary clinical study," Knee Surg Sports Traumatol Arthrosc 3(4): 262-264 (1996)
	MW	Boe et al.	"Arthroscopic partial meniscectomy in patients aged over 50," J. Bone Joint Surg 68B: 707 (1986)

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	MX	Borthakur et al.	"In Vivo Triple Quantum Filtered Sodium MRI of Human Articular Cartilage," Proc. Intl. Soc. Mag. Resonance Med., 7:549 (1999)
	MY	Bregler et al.	"Recovering non-rigid 3D shape from image streams," Proc. IEEE Conference on Computer Vision and Pattern Recognition (June 2000)
	MZ	Brett et al.	"Quantitative Analysis of Biomedical Images," Univ. of Manchester, Zeneca Pharmaceuticals, IBM UK, http://www.wiau.man.ac.uk/~ads/imv (1998)
	NA	Brittberg et al.	"A critical analysis of cartilage repair," Acta Orthop Scand 68(2): 186-191 (1997)
	NB	Brittberg et al.	"Treatment of deep cartilage defects in the knee with autologous chondrocyte transplantation," N Engl J Med 331(14): 889-895 (1994)
	NC	Broderick et al.	"Severity of articular cartilage abnormality in patients with osteoarthritis: evaluation with fast spin-echo MR vs. arthroscopy," AJR 162: 99-103 (1994)
	ND	Burgkart et al.	"Magnetic Resonance Imaging-Based Assessment of Cartilage Loss in Severe Osteoarthritis," Arth Rheum; 44(9): 2072-2077 (Sept. 2001)
	NE	Butterworth et al.	"A TiO2 Dielectric-Filled Toroidal Resonator," Proc. Intl. Soc. Mag. Resonance Med., 7:169 (1999)
	NF	Butts et al.	"Real-Time MR imaging of joint motion on an open MR imaging scanner," Radiological Society of North America, 83rd Scientific Assembly and Annual Meeting, Chicago, IL (1997)
	NG	Carano et al.	"Estimation Of Erosive Changes In Rheumatoid Arthritis By Temporal Multispectral Analysis," Proc. Intl. Soc. Mag. Resonance Med., 7:408 (1999)
	NH	Castriota-Scanderbeg et al.	"Precision of Sonographic Measurement of Articular Cartilage: Inter- and Intraobserver Analysis," Skeletal Radiol 25: 545-549 (1996)

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	NI	Chan et al.	"Osteoarthritis Of The Knee: Comparison Of Radiography, CT And MR Imaging To Assess Extent And Severity," AJR Am J Roentgenol 157(4): 799-806 (1991)
	NJ	Clarke et al.	"Human Hip Joint Geometry and Hemiarthroplasty Selection," The Hip. C.V. Mosby, St. Louis 63-89 (1975)
	NK	Cohen et al.	"Knee cartilage topography, thickness, and contact areas from MRI: in-vitro calibration and in-vivo measurements," Osteoarthritis and Cartilage 7: 95-109 (1999)
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	NM	Daniel et al.	"Breast cancer-gadolinium-enhanced MR imaging with a 0.5T open imager and three-point Dixon technique," Radiology 207(1): 183-190 (1998)
	NN	Dardzinski et al.	"T1-T2 Comparison in Adult Articular Cartilage," ISMRM Seventh Scientific Meeting, Philadelphia, PA (May 22-28, 1999)
	NO	Dardzinski et al.	"Entropy Mapping of Articular Cartilage," Proc. Intl. Soc. Mag. Resonance Med., 7:1018 (1999)
	NP	Disler	"Fat-suppressed three-dimensional spoiled gradient-recalled MR imaging: assessment of articular and physal hyaline cartilage," AJR 169: 1117-1123 (1997)
	NQ	Disler et al.	"Fat-suppressed three-dimensional spoiled gradient-echo MR imaging of hyaline cartilage defects in the knee: comparison with standard MR imaging and arthroscopy," AJR 167: 127-132 (1996)

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	NT	Dougados et al.	"Longitudinal radiologic evaluation of osteoarthritis of the knee," J Rheumatol 19: 378-384 (1992)
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	NV	Du et al.	"Reduction of partial-volume artifacts with zero filled interpolation in three-dimensional MR Angiography," J Magn Res Imaging 4: 733-741 (1994)
	NW	Dufour et al.	"A Technique for the Dynamical Evaluation of the Acromioclavicular Distance of the Shoulder in the Seated Position under Open-field MRI," Proc. Intl. Soc. Mag. Resonance Med., 7:406 (1999)
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	NZ	Eckstein et al.	"In vivo reproducibility of three-dimensional cartilage volume and thickness measurements with MR imaging," AJR 170(3): 593-597 (1998)
	OA	Eckstein et al.	"Determination Of Knee Joint Cartilage Thickness Using Three-Dimensional Magnetic Resonance Chondro-Crassometry (3D MR-CCM)," Magn. Reson. Med. 36(2):256-265, (1996)

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	OC	Eckstein et al.	"Effect Of Physical Exercise On Cartilage Volume And Thickness In Vivo: An MR Imaging Study," Radiology 207: 243-248 (1998)
	OD	Eckstein et al.	"Functional Analysis Of Articular Cartilage Deformation, Recovery, And Fluid Flow Following Dynamic Exercise In Vivo," Anatomy and Embryology 200: 419-424 (1999)
	OE	Eckstein et al.	"New Quantitative Approaches With 3-D MRI: Cartilage Morphology, Function And Degeneration," Medical Imaging International (Nov.-Dec. 1998)
	OF	Eckstein et al.	"Side Differences Of Knee Joint Cartilage Volume, Thickness, And Surface Area, And Correlation With Lower Limb Dominance – An MRI-Based Study," Osteoarthritis and Cartilage 10: 914-921 (2002)
	OG	Eckstein F, et al.	"Accuracy of Cartilage Volume and Thickness Measurements with Magnetic Resonance Imaging," Clin. Orthop. 352: 137-148 (1998)
	OH	Eckstein et al.	"Magnetic Resonance Chondro-Crassometry (MR CCM): A Method for Accurate Determination of Articular Cartilage Thickness?" Magn. Reson. Med. 35: 89-96 (1996)
	OI	Eckstein et al.	"The Influence of Geometry on the Stress Distribution in Joints – A Finite Element Analysis," Anat Embryol, 189: 545-552 (1994)
	OJ	Eckstein et al.	"The Morphology of Articular Cartilage Assessed by Magnetic Resonance Imaging: Reproducibility and Anatomical Correlation," Sur. Radiol Anat 16: 429-438 (1994)

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	OL	Faber et al.	"Gender Differences In Knee Joint Cartilage Thickness, Volume And Articular Surface Areas: Assessment With Quantitative Three-Dimensional MR Imaging," Skeletal Radiology 30 (3): 144-150 (2001)
	OM	Faber et al.	"Quantitative Changes of Articular Cartilage Microstructure During Compression of an Intact Joint," Proc. Intl. Soc. Mag. Resonance Med., 7:547 (1999)
	ON	Falcao et al.	"User-steered image segmentation paradigms: Live wire and live lane," Graphical Models and Image Processing 60: 233-260 (1998)
	OO	Felson et al.	"Weight Loss Reduces the risk for symptomatic knee osteoarthritis in women: the Framingham study," Ann Intern Med 116: 535-539 (1992)
	OP	Gandy et al.	"One-Year Longitudinal Study Of Femoral Cartilage Lesions In Knee Arthritis," Proc. Intl. Soc. Mag. Resonance Med., 7:1032 (1999)
	OQ	Garrett	"Osteochondral allografts for reconstruction of articular defects of the knee," Instr Course Lect 47: 517-522 (1998)
	OR	Gerscovich	"A Radiologist's Guide to the Imaging in the Diagnosis and Treatment of Developmental Dysplasia of the Hip," Skeletal Radiol 26: 447-456 (1997)
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	OT	Glaser et al.	"Optimization And Validation Of A Rapid Highresolution T1-W 3-D Flash Waterexcitation MR Sequence For The Quantitative Assessment Of Articular Cartilage Volume And Thickness," <i>Magnetic Resonance Imaging</i> 19: 177-185 (2001)
	OU	Goodwin et al.	"MR Imaging of Articular Cartilage: Striations in the Radial Layer Reflect the Fibrous Structure of Cartilage," <i>Proc. Intl. Soc. Mag. Resonance Med.</i> , 7:546 (1999)
	OV	Gouraud	"Continuous shading of curved surfaces," <i>IEEE Trans on Computers</i> C-20(6) (1971)
	OW	Graichen et al.	"Three-Dimensional Analysis Of The Width Of The Subacromial Space In Healthy Subjects And Patients With Impingement Syndrome," <i>American Journal of Roentgenology</i> 172: 1081-1086 (1999)
	OX	Hall et al.	"Quantitative MRI For Clinical Drug Trials Of Joint Diseases; Virtual Biopsy Of Articular Cartilage" NIH-FDA Conf. on Biomarkers and Surrogate Endpoints: Advancing Clinical Research and Applications (1998)
	OY	Hardy et al.	"Measuring The Thickness Of Articular Cartilage From MR Images," <i>J. Magnetic Resonance Imaging</i> 13: 120-126 (2001)
	OZ	Hardy et al.	"The Influence of The Resolution And Contrast On Measuring The Articular Cartilage Volume In Magnetic Resonance Images" <i>Magn Reson Imaging</i> . 18(8): 965-972 (Oct. 2000)
	PA	Hargreaves et al.	"MR Imaging of Articular Cartilage Using Driven Equilibrium," <i>Magnetic Resonance in Medicine</i> 42(4): 695-703 (October 1999)
	PB	Hargreaves et al.	"Technical considerations for DEFT imaging," <i>International Society for Magnetic Resonance in Medicine, Sydney, Australia</i> (Apr. 17-24, 1998)

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	PC	Hargreaves et al.	"Imaging of articular cartilage using driven equilibrium," International Society for Magnetic Resonance in Medicine, Sydney, Australia (Apr. 17-24, 1998)
	PD	Haubner M, et al.	"A Non-Invasive Technique for 3-Dimensional Assessment of Articular Cartilage Thickness Based on MRI Part @: Validation Using CT Arthrography," Magn Reson Imaging; 15(7): 805-813 (1997)
	PE	Haut et al.	"A High Accuracy Three-Dimensional Coordinate Digitizing System for Reconstructing the Geometry of Diarthrodial Joints," J. Biomechanics 31: 571-577 (1998)
	PF	Hayes et al.	"Evaluation of Articular Cartilage: Radiographic and Cross-Sectional Imaging Techniques," Radiographics 12: 409-428 (1992)
	PG	Herberhold et al.	"An MR-Based Technique for Quantifying the Deformation of Articular Cartilage During Mechanical Loading in an Intact Cadaver Joint," Magnetic Resonance in Medicine 39(5): 843-850 (1998)
	PH	Herberhold et al.	"In Situ Measurement Of Articular Cartilage Deformation In Intact Femorapatellar Joints Under Static Loading," Journal of biomechanics 32: 1287-1295 (1999)
	PI	Henkelman et al.	"Anisotropy of NMR properties of tissues," Magn Res Med. 32: 592-601 (1994)
	PJ	Herrmann et al.	"High Resolution Imaging of Normal and Osteoarthritic Cartilage with Optical Coherence Tomography," J. Rheumatol 26: 627-635 (1999)
	PK	High et al.	"Early Macromolecular Collagen Changes in Articular Cartilage of Osteoarthritis (OA): An In Vivo MT-MRI and Histopathologic Study," Proc. Intl. Soc. Resonance Med., 7:550 (1999)

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	PM	Holdsworth et al.	"Benefits of Articular Cartilage Imaging at 4 Tesla: An In Vivo Study of Normal Volunteers," Proc. Intl. Soc. Mag. Resonance Med., 7:1028 (1999)
	PN	Hughes et al.	"Technical Note: A Technique for Measuring the Surface Area of Articular Cartilage in Acetabular Fractures," Br. J. Radiol; 67: 584-588 (1994)
	PO	Husmann et al.	"Three-Dimensional Morphology of the Proximal Femur," J. Arthroplasty; 12(4): 444-450 (Jun 1997)
	PP	Hyhlik-Durr et al.	"Precision of Tibial Cartilage Morphometry with a coronal water-excitation MR sequence," European Radiology 10(2): 297-303 (2000)
	PQ	Ihara H.	"Double-Contrast CT Arthrography of the Cartilage of the Patellofemoral Joint," Clin. Orthop.; 198: 50-55 (Sept. 1985)
	PR	Iida et al.	"Socket Location in Total Hip Replacement: Preoperative Computed Tomography and Computer Simulation" Acta Orthop Scand; 59(1): 1-5 (1998)
	PS	Irrazabal et al.	"Fast three-dimensional magnetic resonance imaging," Mag Res. Med. 33: 656-662 (1995)
	PT	Johnson et al.	"The distribution of load across the knee. A comparison of static and dynamic measurements," J. Bone Joint Surg 62B: 346-349 (1980)
	PU	Johnson	"In vivo contact kinematics of the knee joint: Advancing the point cluster technique," Ph.D. Thesis, University of Minnesota (1999)
	PV	Johnson et al.	"Development of a knee wear method based on prosthetic in vivo slip velocity," Transaction of the Orthopedic Research Society, 46th Annual Meeting (Mar. 2000)

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	PX	Kancuji et al.	"Three Dimensional Morphological Analysis of the Proximal Femoral Canal, Using Computer-Aided Design System, in Japanese Patients with Osteoarthritis of the Hip," J. Orthop Sci; 5(4): 361-368 (2000)
	PY	Karvonen et al.	"Articular Cartilage Defects of the Knee: Correlation Between Magnetic Resonance Imaging and Gross Pathology," Ann Rheum Dis. 49: 672-675 (1990)
	PZ	Kass et al.	"Snakes: Active contour models," Int J Comput Vision 1: 321-331 (1988)
	QA	Kaufman et al.	"Articular Cartilage Sodium content as a function of compression" Seventh Scientific Meeting of ISMRM, p. 1022, 1999 T. 105, V. III
	QB	Klosterman et al.	"T2 Measurements in Adult Patellar Cartilage at 1.5 and 3.0 Tesla," ISMRM Seventh Scientific Meeting, Philadelphia, PA, (May 22-28, 1999)
	QC	Knauss et al.	"Self-Diffusion of Water in Cartilage and Cartilage Components as Studied by Pulsed Field Gradient NMR," Magnetic Resonance in Medicine 41:285-292 (1999)
	QD	Koh et al.	"Visualization by Magnetic Resonance Imaging of Focal Cartilage Lesions in the Excised Mini-Pig Knee," J. Orthop. Res; 14(4): 554-561 (Jul. 1996)
	QE	Korhonen et al.	"Importance Of The Superficial Tissue Layer For The Indentation Stiffness Of Articular Cartilage," Med. Eng. Phys; 24(2): 99-108 (Mar. 2002)
	QF	Korkala et al.	"Autogenous Osteoperiosteal Grafts in the Reconstruction of Full-Thickness Joint Surface Defects," Int. Orthop.; 15(3): 233-237 (1991)

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	QH	Kwak et al.	"Anatomy of Human Patellofemoral Joint Articular Cartilage: Surface Curvature Analysis," J. Orthop. Res.; 15: 468-472 (1997)
	QI	LaFortune et al.	"Three dimensional kinematics of the human knee during walking," J. Biomechanics 25: 347-357 (1992)
	QJ	Lang et al.	"Functional joint imaging: a new technique integrating MRI and biomotion studies," International Society for Magnetic Resonance in Medicine, Denver (Apr. 18-24, 2000)
	QK	Lang et al.	"Risk factors for progression of cartilage loss: a longitudinal MRI study. European Society of Musculoskeletal Radiology, 6th Annual Meeting, Edinburgh, Scotland (1999)
	QL	Lang et al.	"Cartilage imaging: comparison of driven equilibrium with gradient-echo, SPAR, and fast spin-echo sequences. International Society for Magnetic Resonance in Medicine, Sydney, Australia, (Apr. 17-24 1998)
	QM	Ledingham et al.	"Factors affecting radiographic progression of knee osteoarthritis," Ann Rheum Dis 54: 53-58 (1995)
	QN	Lefebvre et al.	"Automatic Three-Dimensional Reconstruction and Characterization of Articular Cartilage from High-Resolution Ultrasound Acquisitions," Ultrasound Med. Biol.; 24(9): 1369-1381 (Nov. 1998)

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	QO	Li et al.	"A Boundary Optimization Algorithm for Delineating Brain Objects from CT Scans: Nuclear Science Symposium and Medical Imaging Conference 1993 IEEE Conference Record, San Francisco, CA (1993)
	QP	Lin et al.	"Three-Dimensional Characteristics of Cartilaginous and Bony Components of Dysplastic Hips in Children: Three-Dimensional Computed Tomography Quantitative Analysis," J. Pediatr. Orthop.; 17: 152-157 (1997)
	QQ	Lorensen et al.	"Marching cubes: a high resolution 3d surface construction algorithm," Comput Graph 21: 163-169 (1987)
	QR	Losch et al.	"A non-invasive technique for 3-dimensional assessment of articular cartilage thickness based on MRI part 1: development of a computational method," Magn Res Imaging 15(7): 795-804 (1997)
	QS	Lu et al.	"Bone position estimation from skin marker coordinates using globals optimization with joint constraints," J Biomechanics 32: 129-134 (1999)
	QT	Lu et al.	"In vitro degradation of porous poly(L-lactic acid) foams", Biomaterials, 21(15):1595-1605, August, 2000
	QU	Lucchetti et al.	"Skin movement artifact assessment and compensation in the estimation of knee-joint kinematics," J Biomechanics 31: 977-984 (1998)
	QV	Luske et al.	"Measurement Of Distribution Of Water Content Of Human Articular Cartilage Based On Transverse Relaxation Times: An In Vitro Study," Seventh Scientific Meeting of ISMRM, p. 1020 (1999)
	QW	Lynch et al.	"Cartilage segmentation of 3D MRI scans of the osteoarthritic knee combining user knowledge and active contours," Proc. SPIE 3979 Medical Imaging, San Diego pp. 925-935 (Feb. 2000)

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	QY	Marler et al.	"Soft-Tissue Augmentation with Injectable Alginate and Syngenic Fibroblasts", Plastic & Reconstructive Surgery, 105(6):2049-2058, May, 2000
	QZ	Marshall et al.	"Quantitation Of Articular Cartilage Using Magnetic Resonance Imaging And Three-Dimensional Reconstruction," J. Orthop. Res.; 13: 814-823 (1995)
	RA	Matsen, III et al.	"Robotic Assistance in Orthopaedic Surgery: A Proof of Principle Using Distal Femoral Arthroplasty", Clinical Ortho. and Related Research, 296:178-186 (1993)
	RB	Mattila et al.	"Massive Osteoarticular Knee Allografts: Structural Changes Evaluated with CT," Radiology; 196: 657-660 (1995)
	RC	Merkle et al.	"A Transceiver Coil Assembly For Hetero-Nuclear Investigations Of Human Breast At 4T," Proc. Intl. Soc. Mag. Resonance Med., 7:170 (1999)
	RD	Meyer et al.	"Simultaneous spatial and spectral selective excitation," Magn Res Med 15: 287-304 (1990)
	RE	Mills et al.	"Magnetic Resonance Imaging Of The Knee: Evaluation Of Meniscal Disease," Curr. Opin. Radiol. 4(6): 77-82 (1992)
	RF	Miltz et al.	"The Thickness of the Subchondral Plate and Its Correlation with the thickness of the Uncalcified Articular Cartilage in the Human Patella," Anat. Embryol.; 192: 437-444 (1995)
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	RI	Mollica et al.	"Surgical treatment of arthritic varus knee by tibial corticotomy and angular distraction with an external fixator," Ital J Orthop Traumatol 18(1): 17-23 (1992)
	RJ	Moussa	"Rotational Malalignment and Femoral Torsion in Osteoarthritic Knees with Patellofemoral Joint Involvement: A CT Scan Study," Clin. Orthop.; 304: 176-183 (Jul. 1994)
	RK	Mundinger et al.	"Magnetic Resonance Tomography In The Diagnosis Of Peripheral Joints," Schweiz Med. Wochenschr. 121(15): 517-527 (1991) (Abstract Only)
	RL	Myers et al.	"Experimental Assessment by High Frequency Ultrasound of Articular Cartilage Thickness and Osteoarthritic Changes," J. Rheumatol; 22: 109-116 (1995)
	RM	Nieminen et al.	"T2 Indicates Incompletely the Biomechanical Status of Enzymatically Degraded Articular Cartilage of 9.4T," Proc. Intl. Soc. Mag. Resonance Med., 7:551 (1999)
	RN	Nishii et al.	"Three Dimensional Evaluation Of The Acetabular And Femoral Articular Cartilage In The Osteoarthritis Of The Hip Joint," Proc. Intl. Soc. Mag. Resonance Med., 7:1030 (1999)
	RO	Nizard	"Role of tibial osteotomy in the treatment of medical femorotibial osteoarthritis," Rev Rhum Engl Ed 65(7-9): 443-446 (1998)
	RP	Noll et al.	"Homodyne detection in magnetic resonance imaging," IEEE Trans Med Imag 10(2): 154-163 (1991)

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	RR	Parkkinen et al.	"A Mechanical Apparatus With Microprocessor Controlled Stress Profile For Cyclic Compression Of Cultured Articular Cartilage Explants," J. Biomech.; 22 (11-12): 1285-1290 (1989)
	RS	Pearle et al.	"Use of an external MR-tracking coil for active scan plane registration during dynamic Musculoskeletal MR imaging in a vertically open MR unit," American Roentgen Ray Society, San Francisco, CA (1998)
	RT	Peterfy et al.	"Quantification of the volume of articular cartilage in the carpalometacarpal joints of the hand: accuracy and precision of three-dimensional MR imaging," AJR 165: 371-375 (1995)
	RU	Peterfy et al.	"MR Imaging of the arthritic knee: improved discrimination of cartilage, synovium, and effusion with pulsed saturation transfer and fat-suppressed T1-weighted sequences," Radiology 191(2): 413-419 (1994)
	RV	Peterfy et al.	"Quantification of articular cartilage in the knee with pulsed saturation transfer subtraction and fat-suppressed MR imaging: optimization and validation," Radiology 192(2): 485-491 (1994)
	RW	Peterfy et al.	"Emerging Applications of Magnetic Resonance Imaging in the Evaluation of Articular Cartilage," Radiol Clin North Am.; 34(2): 195-213 (Mar. 1996)
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	RZ	Porthoine et al.	"CT-Based Planning and Individual Template Navigation in TKA", Navigation and Robotics in Total Joint and Spine Surgery, Springer, 48:336-342 (2004)
	SA	Porthoine et al.	"Development of a Clinical Demonstrator for Computer Assisted Orthopedic Surgery with CT Image Based Individual Templates." In Lemke HU, Vannier MW, Inamura K (eds). Computer Assisted Radiology and Surgery. Amsterdam, Elsevier 944-949, 1997
	SB	Potter et al.	"Magnetic resonance imaging of articular cartilage in the knee: an evaluation with use of fast-spin-echo imaging," J Bone Joint Surg 80-A(9): 1276-1284 (1998)
	SC	Potter et al.	"Sensitivity of Quantitative NMR Imaging to Matrix Composition in Engineered Cartilage Tissue" Proc. Intl. Soc. Mag. Resonance Med., 7:552 (1999)
	SD	Probst et al.	"Technique For Measuring The Area Of Canine Articular Surfaces," Am. J. Vet. Res. 48(4): 608-609 (1987)
	SE	Prodromos et al.	"A relationship between gait and clinical changes following high tibial osteotomy," J Bone Joint Surg 67A: 1188-1194 (1985)
	SF	Radermacher	English Translation: Helmholtz Institute of Biomedical Technology, "Computer-Assisted Planning and Execution of Orthopedic Surgery Using Individual Surgical Templates", May 18, 1999

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	SH	Radermacher	"Computer Assisted Orthopaedic Surgery With Image Based Individual Templates" Clinical Orthopaedics, Sept. 1998, Vol. 354, pp. 28-38
	SI	Radermacher et al.	"Image Guided Orthopedic Surgery Using Individual Templates – Experimental Results and Aspects of the Development of a Demonstrator for Pelvis Surgery." In Troceaz J. Grimson E., Mosges R (eds). Computer Vision, Virtual Reality and Robotics in Medicine and Medical Robotics and Computer Assisted Surgery, Lecture Notes in Computer Science. Berlin, Springer-Verlag 606-615, 1997
	SJ	Radermacher et al.	"Computer Integrated Orthopedic Surgery – Connection of Planning and Execution in Surgical Inventions." In Taylor, R., Lavallee, S., Burdea G. Mosges, R. (eds). Computer Integrated Surgery. Cambridge, MIT press 451-463, 1996
	SK	Radermacher et al.	"Technique for Better Execution of CT Scan Planned Orthopedic Surgery on Bone Structures." In Lemke HW, Inamura, K., Jaffe, CC, Vannier, MW (eds). Computer Assisted Radiology, Berlin, Springer 933-938, 1995
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	SN	Radin et al.	"Characteristics of Joint Loading as it Applies to Osteoarthritis in: Mow VC, Woo S.Y., Ratcliffe T., eds. Symposium on Biomechanics of Diarthrodial Joints, Vol 2, New York, NY: Springer-Verlag, pp. 437-451 (1990)
	SO	Recht et al.	"Accuracy of fat-suppressed three-dimensional spoiled gradient-echo FLASH MR imaging in the detection of patellofemoral articular cartilage abnormalities," Radiology 198: 209-212 (1996)
	SP	Recht et al.	"MR imaging of articular cartilage: current status and future directions," AJR 163: 283-290 (1994)
	SQ	Reiser et al.	"Magnetic Resonance In Cartilaginous Lesions Of The Knee Joint With Three-Dimensional Gradient-Echo Imaging," Skeletal Radiol. 17(7): 465-471, (1988)
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	SS	Robson et al.	"A Combined Analysis And Magnetic Resonance Imaging Technique For Computerized Automatic Measurement Of Cartilage Thickness In Distal Interphalangeal Joint," Magnetic Resonance Imaging 13(5): 709-718 (1995)
	ST	Rushfeldt et al.	"Improved Techniques for Measuring In Vitro the Geometry and Pressure Distribution in the Human Acetabulum - I. Ultrasonic Measurement of Acetabular Surfaces, Sphericity and Cartilage Thickness," J. Biomech; 14(4): 253-260 (1981)
	SU	Saied et al.	"Assessment of Articular Cartilage and Subchondral Bone: Subtle and Progressive Changes in Experimental Osteoarthritis Using 50 MHz Echography In Vitro," J. Bone Miner Res.; 12(9): 1378-1386 (1997)

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	SV	Saito et al.	"New algorithms for Euclidean distance transformation of an – dimensional digitized picture with applications," Pattern Recognition 27(11): 1551-1565 (1994)
	SW	Schipplein et al.	"Interaction between active and passive knee stabilizers during level walking," J Orthop Res 9: 113-119 (1991)
	SX	Schouten et al.	"A 12 year follow up study in the general population on prognostic factors of cartilage loss in osteoarthritis of the knee," Ann Rheum Dis 51: 932-937 (1992)
	SY	Shapiro et al.	"In-Vivo Evaluation of Human Cartilage Compression and Recovery using 1H and 23Na MRI," Proc. Intl. Soc. Mag. Resonance Med., 7:548 (1999)
	SZ	Sharif et al.	"Serum hyaluronic acid level as a predictor of disease progression in osteoarthritis of the knee," Arthritis Rheum 38: 760-767 (1995)
	TA	Sharma et al.	"Knee adduction moment, serum hyaluronic acid level, and disease severity in medial tibiofemoral osteoarthritis," Arthritis and Rheumatism 41(7): 1233-40 (1998)
	TB	Shoup et al.	"The driven equilibrium Fourier transform NMR technique: an experimental study," J Mag Res p. 298-310 (1972)
	TC	Sittek et al.	"Assessment of Normal Patellar Cartilage Volume and Thickness Using MRI: an Analysis of Currently Available Pulse Sequences", Skeletal Radiol 1996; 25: 55-61, T. 174, V. V
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	TF	Solloway et al.	"The use of active shape models for making thickness measurements of articular cartilage from MR images," Mag Res Med 37: 943-952 (1997)
	TG	Soslowsky et al.	"Articular Geometry of the Glenohumeral Joint," Clin. Orthop.; 285: 181-190 (Dec. 1992)
	TH	Spoor et al.	"Rigid body motion calculated from spatial coordinates of markers," J. Biomechanics 13: 391-393 (1980)
	TI	Stammler et al.	"A Method For Quantifying Time Dependent Changes In MR Signal Intensity Of Articular Cartilage As A Function Of Tissue Deformation In Intact Joints" Medical Engineering & Physics 20: 741-749 (1998)
	TJ	Stammler et al.	"A New Method for 3D Cartilage Thickness Measurement with MRI, Based on Euclidean Distance Transformation, and its Reproducibility in the Living," Proc. Intl. Soc. Mag. Resonance Med., 6:562 (1998)
	TK	Stammler et al.	"Elastic Registration Of 3D Cartilage Surfaces From MR Image Data For Detecting Local Changes Of The Cartilage Thickness," Magnetic Resonance in Medicine 44: 592-601 (2000)
	TL	Stammler et al.	"Determination of 3D cartilage thickness data from MR imaging: computational method and reproducibility in the living," Mag Res Med 41: 529-536 (1999)
	TM	Stammler et al.	"Interobserver to reproducibility of quantitative cartilage measurements: Comparison of B-spline snakes and manual segmentation," Mag Res Imaging 17: 1033-1042 (1999)

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	TO	Steines et al.	"Segmentation of osteoarthritis femoral cartilage from MR images," CARS – Computer-Assisted Radiology and Surgery, pp 578-583, San Francisco (2000)
	TP	Steines et al.	"Measuring volume of articular cartilage defects in osteoarthritis using MRI," ACR 64th Annual Scientific Meeting, Philadelphia, (Oct. 2000)
	TQ	Stevenson et al.	"The fate of articular cartilage after transplantation of fresh and cryopreserved tissue-antigen-matched and mismatched osteochondral allografts in dogs," J. Bone Joint Surg 71(9): 1297-1307 (1989)
	TR	Tebben et al.	"Three-Dimensional Computerized Reconstruction. Illustration Of Incremental Articular Cartilage Thinning," Invest. Radiol. 32(8): 475-484 (1997)
	TS	Tieschky et al.	"Repeatability of patellar cartilage thickness patterns in the living, using a fat-suppressed magnetic resonance imaging sequence with short acquisition time and three-dimensional data processing," J. Orthop Res 15(6): 808-813 (1997)
	TT	Tomasi et al.	"Shape and motion from image streams under orthography – a factorization method," Proc. Nat. Acad. Sci. 90(21): 9795-9802 (1993)
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Attorney Docket: 2960/118

Serial No: 10/752,438

Art Group Unit: 3738

Date Filed: January 5, 2004

Examiner Name: Stewart, Jason-Dennis
Neilken

Invention: Patient Selectable Knee Arthroplasty Devices

**LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

OTHER DOCUMENTS			
Examiner Initials	Reference Number	Author	Title of Article, Title of Journal, Volume Number, Page Numbers, Date
	TW	Van Leersum et al.	"Thickness of Patellofemoral Articular Cartilage as Measured on MR Imaging: Sequence Comparison of accuracy, reproducibility, and interobserver variation," Skeletal Radiol 1995; 24: 431-435 (1995)
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 Serial No: 10/752,438 Art Group Unit: 3738
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	UH	Wayne et al.	"Finite Element Analyses of Repaired Articular Surfaces," Proc. Instn. Mech. Eng.; 205(3): 155-162 (1991)
	UI	Wiese et al.	"Biomaterial properties and biocompatibility in cell culture of a novel self-inflating hydrogel tissue expander", J. Biomedical Materials Research Part A, 54(2):179-188, November, 2000
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	UQ	Zimmer, Inc.	"There's a New Addition to the Flex Family! The Zimmer® Unicompartmental Knee System", Pp. 1-8 (2004)
	UR	International Searching Authority	International Search Report – International Application No. PCT/US06/38212, dated April 22, 2008, together with the Written Opinion of the International Searching Authority, 7 pages
	US	United States Patent and Trademark Office	Office Action dated July 30, 2009 pertaining to Application No. 11/537,318, 56 pages
	UT	Sunstein Kann Murphy & Timbers LLP	Request for Continued Examination and Response dated July 27, 2009 pertaining to Application No. 10/997,407, 26 pages
	UU	United States Patent and Trademark Office	Office Action dated November 24, 2009 pertaining to Application No. 10/997,407, 14 pages
	UV	United States Patent and Trademark Office	Office Action dated January 9, 2009, pertaining to Application No. 10/764,010 (US Patent Publication No. US 2004/0167390), 11 pages
	UW	Bromberg & Sunstein LLP	Response to Office Action dated January 9, 2009, pertaining to Application No. 10/764,010 (US Patent Publication No. US 2004/0167390), 25 pages
	UX	United States Patent and Trademark Office	Office Action dated October 23, 2009, pertaining to Application No. 10/764,010 (US Patent Publication No. US 2004/0167390), 13 pages
	UY	United States Patent and Trademark Office	Office Action dated July 9, 2009, pertaining to Application No. 10/160,667, 5 pages
	UZ	Sunstein Kann Murphy & Timbers LLP	Amendment dated January 11, 2010, pertaining to Application No. 10/160,667, 12 pages
	VA	United States Patent and Trademark Office	Office Action dated August 6, 2009, pertaining to Application No. 10/681,749, 6 pages
	VB	Sunstein Kann Murphy & Timbers LLP	Response to Office Action dated August 6, 2009, pertaining to Application No. 10/681,749, 18 pages
	VC	United States Patent and Trademark Office	Office Action dated November 25, 2008, pertaining to Application No. 10/681,750, 21 pages

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Invention: Patient Selectable Knee Arthroplasty Devices Neilken

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	VD	Sunstein Kann Murphy & Timbers LLP	Response to Office Action dated November 25, 2008, pertaining to Application No. 10/681,750, 17 pages
	VE	United States Patent and Trademark Office	Office Action dated September 22, 2009, pertaining to Application No. 10/681,750, 21 pages

Examiner Signature: /Jason-Dennis Stewart/
Date Considered: 06/21/2010

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation *if not* in conformance and not considered. Include copy of this form with next communication to applicant.